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Method of determining the **orientation** of an image

P Dewaele - US Patent App. 10/776,736, 2004 - Google Patents

... [0068] From the formulas of **Frenet-Serret**, it can ... with high curvature as more important indicators of the **orientation** sense of the shape, each **vote** may be ...

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GE Deacon, M Wright, C Malcolm - DAI RESEARCH PAPER, 1997 - dai.ed.ac.uk

... of the VTC thus determining the sense of the **vote** as clockwise ... dened, will lead to the ob- ject reorienting into this **orientation**. ... 3 The **Frenet-Serret** Equations ...

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GE Deacon, M Wright, C Malcolm - Intelligent Robots and Systems, 1997. IROS'97., ..., 1997 - ieeexplore.ieee.org

... the VTC thus determining the sense of the **vote** as clockwise ... defined, will lead to the ob- ject reorienting into this **orientation**. ... 3 The **Frenet-Serret** Equations ...

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Estimating relative vehicle motions in traffic scenes- ► psu.edu (pdf)

Z Duric, R Goldenberg, E Rivlin, A Rosenfeld - Pattern Recognition, 2002 - Elsevier

... **Serret** motion model, and showed that knowing how the **Frenet-Serret** frame is ... The **orientation** of the vehicle coordinate system $C\xi\eta\zeta$ relative to the camera ...

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[PDF] ► CENTER FOR AUTOMATION RESEARCH

A Rosenfeld - dtic.mil

... We have the **Frenet-Serret** formulas [22] $t = K\ddot{U}$, $\ddot{r}' = -\dot{e}t + \tau b$, $b = -\ddot{r}\ddot{n}$ (1) where ... vector $d\mathbf{v}/d$ between C and O, and the relative **orientation** of the ...

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A theory of multiscale, curvature-based shape representation for planar curves

F Mokhtarian, AK Mackworth - IEEE Transactions on Pattern Analysis and Machine ..., 1992 - doi.ieeecomputersociety.org

... 2]. Edge elements in the image **vote** for the ... curve of arbitrary shape at any scale or **orientation**. ... u) must satisfy the simplified **Serret-Frenet** vector equations ...

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[book] Handbook of mathematical models in computer vision

N Paragios, Y Chen, O Faugeras - 2006 - books.google.com

... from the **Frenet** Point of View: Boundary Detection, Stereo, Texture and Color 359

S. Zucker 22.1 Introduction 359 22.2 Introduction to **Frenet-Serret** 361 22.3 Co ...

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Egomotion analysis based on the **Frenet-Serret** motion model

Z Durić, A Rosenfeld, LS Davis - International Journal of Computer Vision, 1995 - Springer

... **frame** (chosen with the nodal point of the camera as the origin) and the moving trihedron remains constant, the resulting motion is called **Frenet-Serret** ...

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Quaternion **frame** approach to streamline visualization- ► [indiana.edu](#) (pdf)

AJ Hanson, H Ma - IEEE Transactions on Visualization and Computer ..., 1995 - ieeexplore.ieee.org

... surfaces (see [20]), and **orientation** differences (which are themselves **orientation** fields) as well. ... **frame**, also called the **Frenet-Serret frame** (see, eg, [9 ...

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Frenet-Serret dynamics- ► [citebase.org](#) (pdf)

G Arreaga, R Capovilla, J Guven - Classical and Quantum Gravity, 2001 - iop.org

... **Frenet-Serret** dynamics 5067 ... The arbitrariness in the choice of **frame** does however come at a price ... its content in a way which depends on the **orientation** of the ...

Cited by 17 - Related articles - BL Direct - All 6 versions

Optical tunnelling: radiation losses in bent fibre-optic waveguides

WL Kath, GA Kriegsmann - IMA Journal of Applied Mathematics, 1988 - IMA

... It does not perfectly follow the **orientation** of the fibre, however, because ... does not necessarily match that of the fibre (the **Frenet-Serret frame** is determined ...

Cited by 19 - Related articles - All 3 versions

Inverse kinematics of binary manipulators using a continuum model

GS Chirikjian - Journal of Intelligent and Robotic Systems, 1997 - Springer

... $[u(L) \ n(L) \ b(L)] \in SO(3)$ be the rotation matrix representing the **orientation** of **Frenet-Serret frame** at $x(L)$ for a given curve. ...

Cited by 14 - Related articles - BL Direct - All 5 versions

Automatic fairing of point sets

M Eck, R Jaspert - Designing fair curves and surfaces: shape quality in ..., 1994 - books.google.com

... again to the well-known Frenet **frame** and **Frenet** ... are the coefficients of these discrete **Frenet-Serret** formulas ... Pfj because of the spatial problem of **orientation**. ...

Cited by 21 - Related articles - All 3 versions

(PDF) ► The kinematics of hyper-redundant robot locomotion

GS Chirikjian, JW Burdick - IEEE transactions on robotics and automation, 1995 - custer.lcsr.jhu.edu

... associated with it, in the same way that the **Frenet-Serret frame** is associated ... s,t), the matrix represents a unique induced reference **frame orientation** at each ...

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Spatial rational motions based on rational **Frenet-Serret** curves

R Ravani, A Meghdari - 2004 IEEE International Conference on Systems, Man ..., 2004 - ieeexplore.ieee.org

... shown. In this case the **orientation** of **frenet-serret frame** does not remain constant based on curvature changes. 4 RMF on RF Curves ...

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